

FIG.1

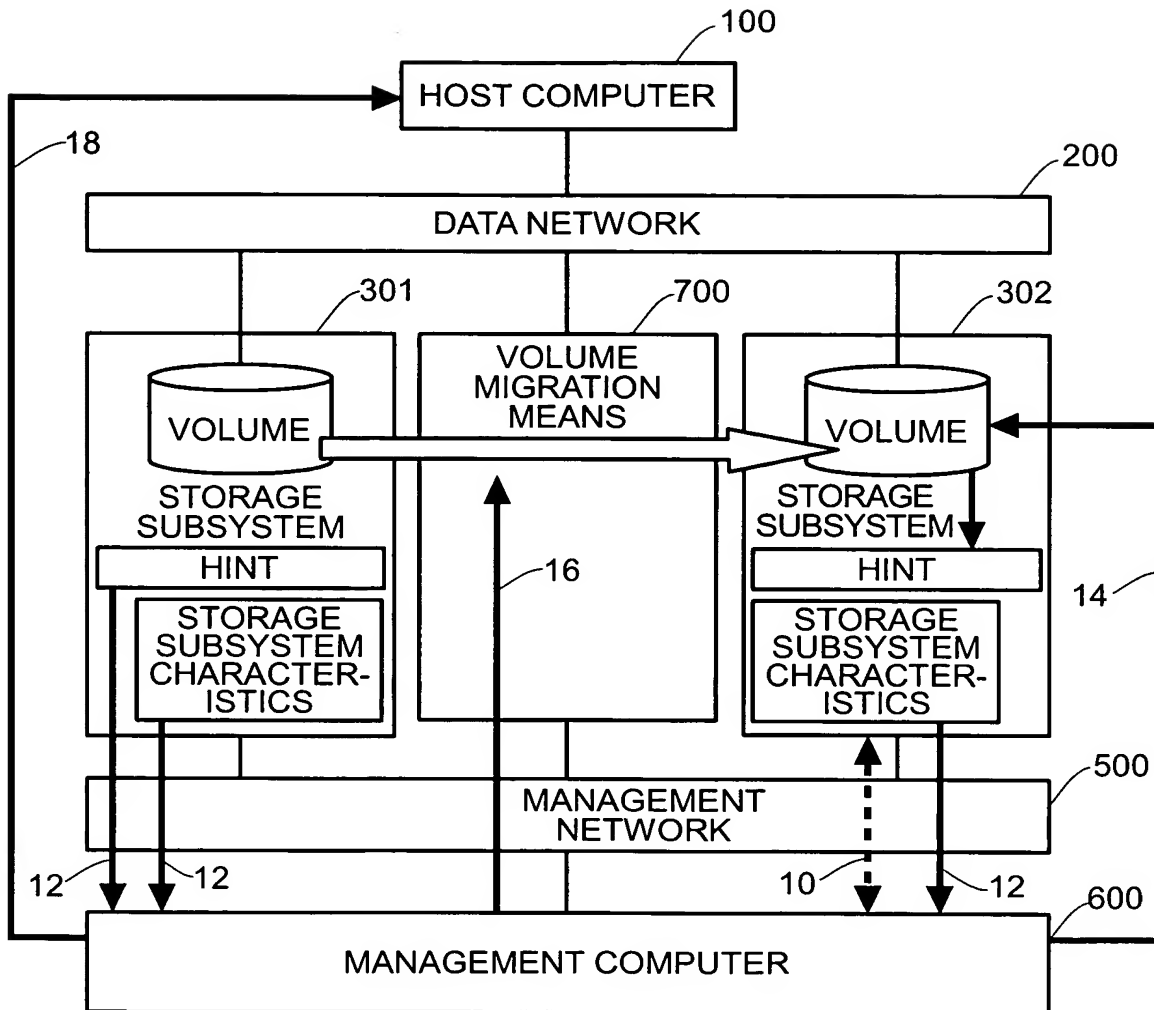


FIG. 2

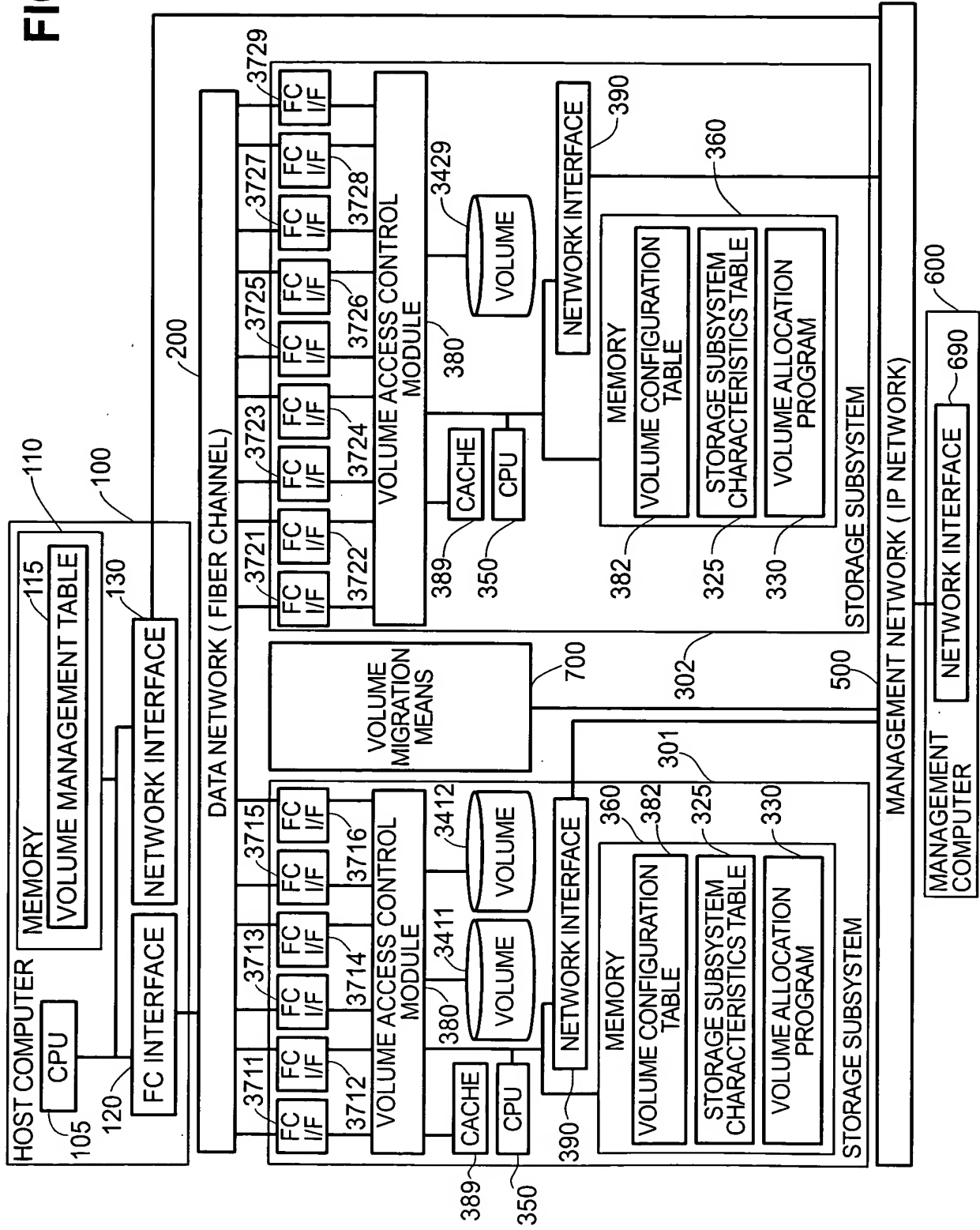


FIG.3

VOLUME ALLOCATION REQUEST	
CAPACITY	
AccessBandwidthHint	
StorageCostHint	
DataAvailabilityHint	

FIG.4A

326

Hint	Access Bandwidth	Storage Cost	Data Availability
0	Don't Care	Don't Care	Don't Care
1	1Gbps	1 ¢ /MB	99.9%
2	1Gbps	1 ¢ /MB	99.9%
3	1Gbps	1 ¢ /MB	99.9%
4	1Gbps	1 ¢ /MB	99.9%
5	1Gbps	1 ¢ /MB	99.9%
6	2Gbps	1 ¢ /MB	99.9%
7	2Gbps	1 ¢ /MB	99.9%
8	2Gbps	1 ¢ /MB	99.9%
9	2Gbps	1 ¢ /MB	99.9%
10	2Gbps	1 ¢ /MB	99.9%

FIG.4B

327

Hint	Access Bandwidth	Storage Cost	Data Availability
0	Don't Care	Don't Care	Don't Care
1	1Gbps	2 ¢ /MB	99.999%
2	1Gbps	2 ¢ /MB	99.999%
3	1Gbps	2 ¢ /MB	99.999%
4	1Gbps	2 ¢ /MB	99.999%
5	1Gbps	2 ¢ /MB	99.999%
6	2Gbps	2 ¢ /MB	99.999%
7	2Gbps	2 ¢ /MB	99.999%
8	2Gbps	2 ¢ /MB	99.999%
9	10Gbps	2 ¢ /MB	99.999%
10	10Gbps	2 ¢ /MB	99.999%

FIG.5A

ABH: AccessBandwidthHint
SCH: StorageCostHint
DAH: DataAvailabilityHint

383

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION		
				ABH	SCH	DAH
3412	3714	200GB	2Gbps	10	0	10

FIG.5B

383

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION		
				ABH	SCH	DAH
3412	3714	200GB	2Gbps	10	0	10
3411	3711	200GB	1Gbps	1	10	0

FIG.5C

383

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION		
				ABH	SCH	DAH
3411	3711	200GB	1Gbps	1	10	0

FIG.6A

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
C	3714	3412	0

FIG.6B

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
C	3714	3412	0
D	3711	3411	0

FIG.6C

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
C	3714	3412	1
D	3711	3411	0

FIG.6D

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
C	3727	3429	0
D	3711	3411	0

FIG.7A

ABH: AccessBandwidthHint
SCH: StorageCostHint
DAH: DataAvailabilityHint

384

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION		
				ABH	SCH	DAH

FIG.7B

384

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION		
				ABH	SCH	DAH
3429	3727	200GB	10Gbps	10	0	10

FIG.8A

800

SETTINGS SCREEN FOR CREATING VOLUME

HOST COMPUTER	100	810
CAPACITY	200	812
STORAGE SUBSYSTEM	301	818
HINT	AccessBandWidthHint	10
	StorageCostHint	0
	DataAvailabilityHint	10
		830
		CREATE

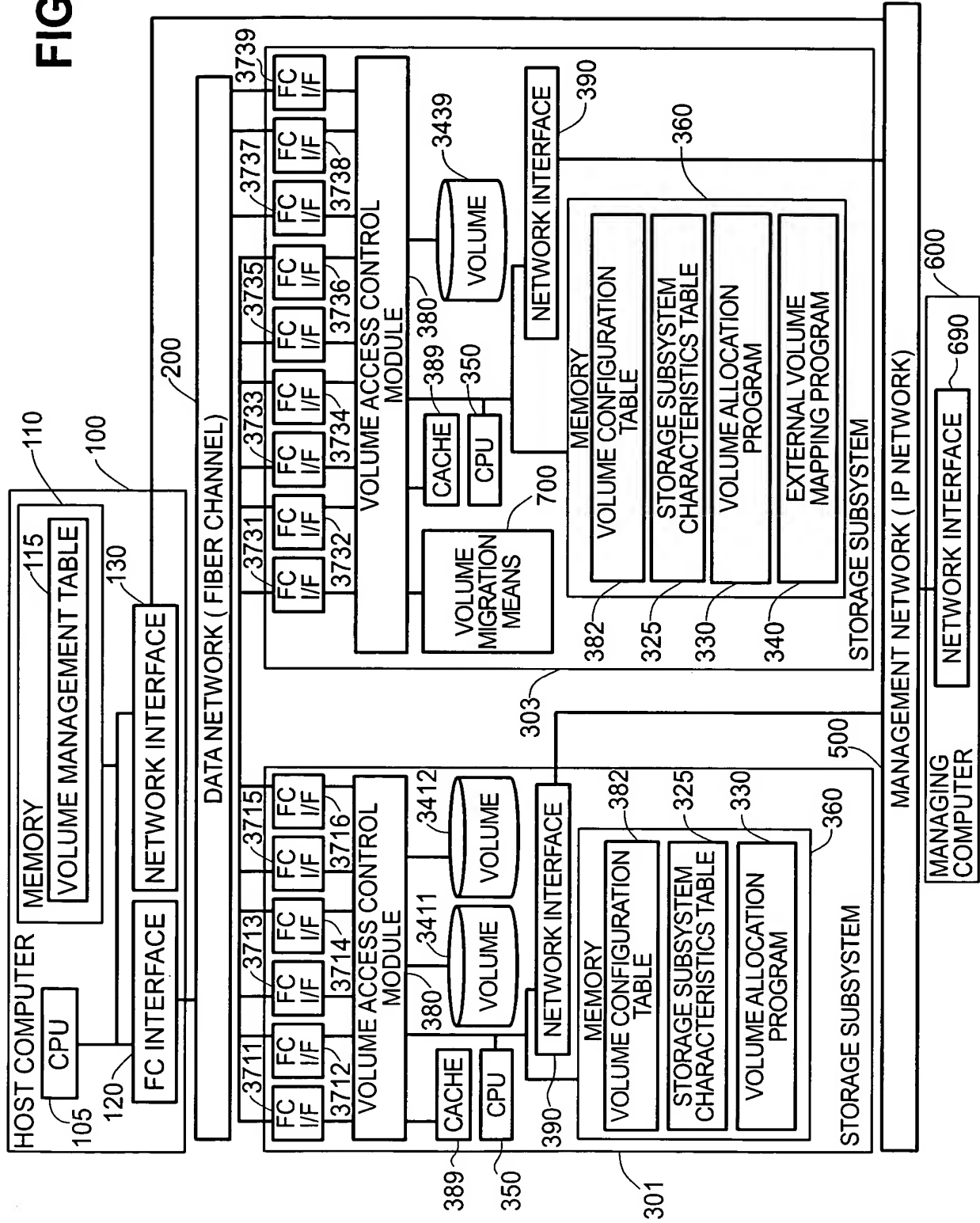
FIG.8B

801

SETTINGS SCREEN FOR CREATING VOLUME

HOST COMPUTER	100	810
CAPACITY	200	812
VOLUME POLICY	<div>816</div> <div> PRIORITIZE ACCESS BANDWIDTH AND HIGH AVAILABILITY PRIORITIZE LOW COSTS PRIORITIZE ACCESS BANDWIDTH ONLY </div>	
STORAGE SUBSYSTEM	301	818
HINT	AccessBandWidthHint	10
	StorageCostHint	0
	DataAvailabilityHint	10
		830
		CREATE

FIG.9



ABH: AccessBandwidthHint
 SCH: StorageCostHint
 DAH: DataAvailabilityHint

385

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION			EXTERNAL STORAGE SUBSYSTEM	
				ABH	SCH	DAH	FC I/F NUMBER	VOLUME NUMBER
3432	3738	200GB	2Gbps	10	0	10	3714	3412
3431	3737	200GB	1Gbps	1	10	0	3711	3411

385

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION			EXTERNAL STORAGE SUBSYSTEM	
				ABH	SCH	DAH	FC I/F NUMBER	VOLUME NUMBER
3432	3738	200GB	2Gbps	10	0	10	3714	3412
3431	3737	200GB	1Gbps	1	10	0	3711	3411
3439	0	200GB	10Gbps	10	0	10	0	0

385

VOLUME NUMBER	FC I/F NUMBER	CAPACITY	BANDWIDTH	VOLUME HINT INFORMATION			EXTERNAL STORAGE SUBSYSTEM	
				ABH	SCH	DAH	FC I/F NUMBER	VOLUME NUMBER
3431	3737	200GB	1Gbps	1	10	0	3711	3411
3432	3738	200GB	10Gbps	10	0	10	0	0

FIG.10A

FIG.10B

FIG.10C

FIG.11

115

DRIVE LETTER	FC INTERFACE NUMBER	VOLUME NUMBER	MIGRATION FLAG
C	3738	3432	0
D	3737	3431	0

FIG.12

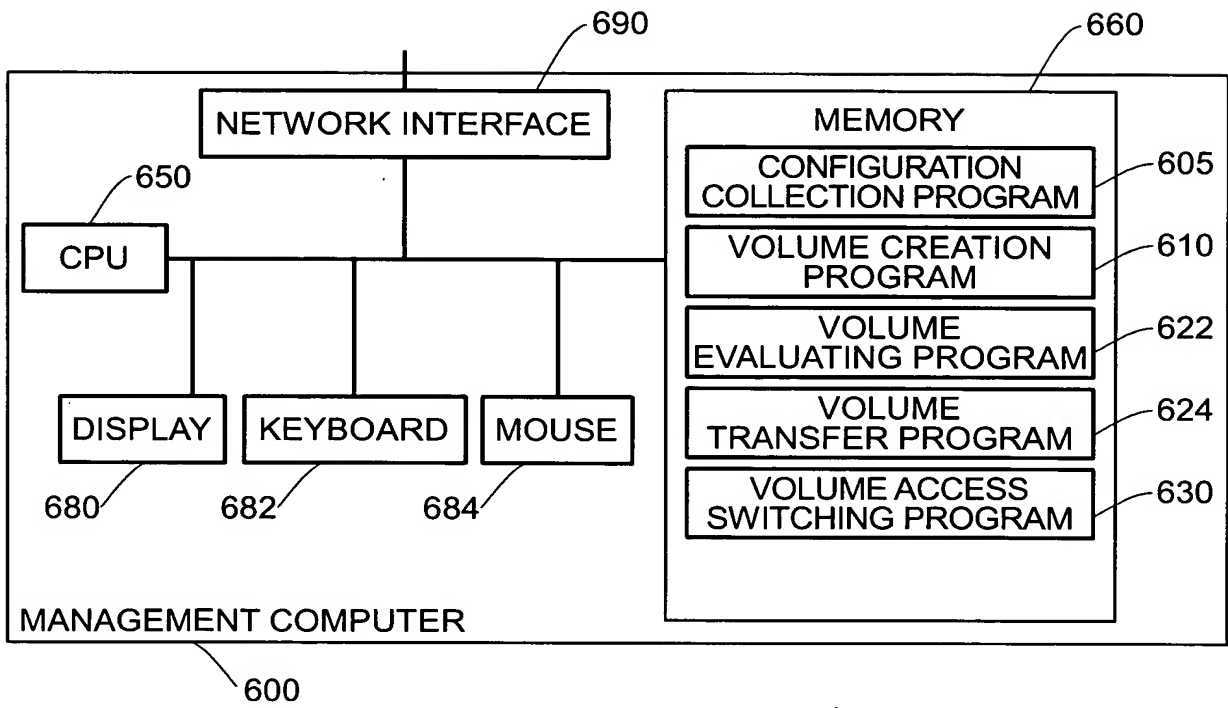


FIG.13

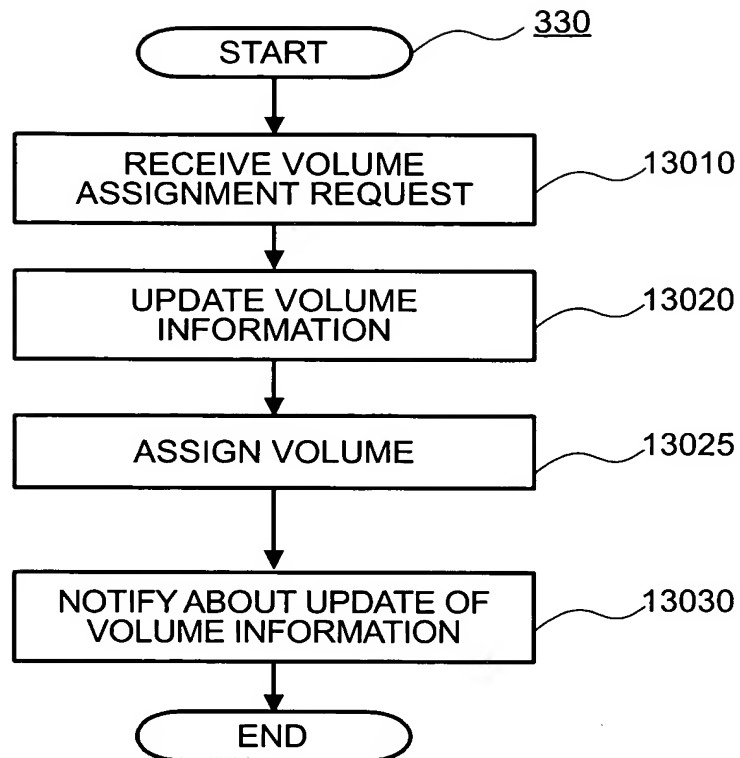


FIG.14

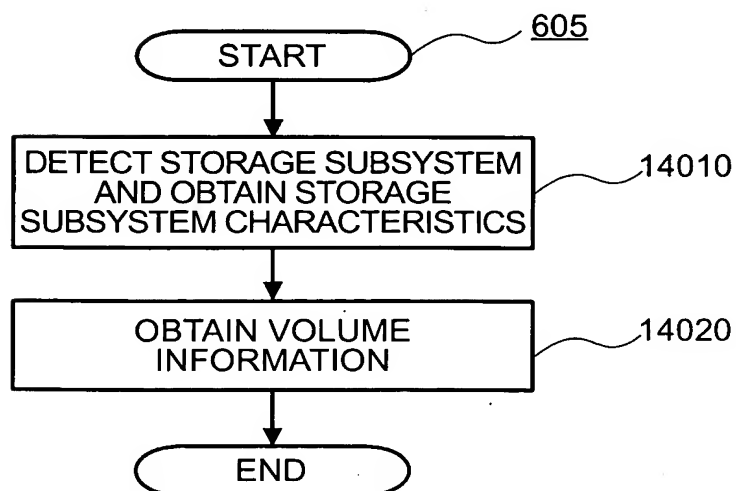


FIG.15

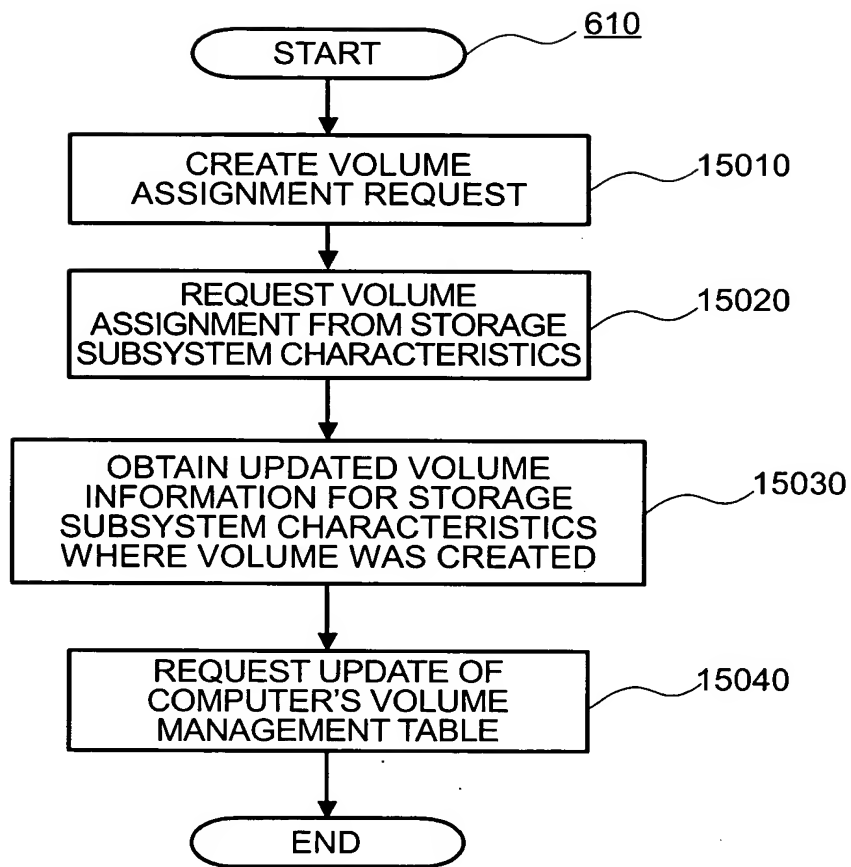


FIG.16

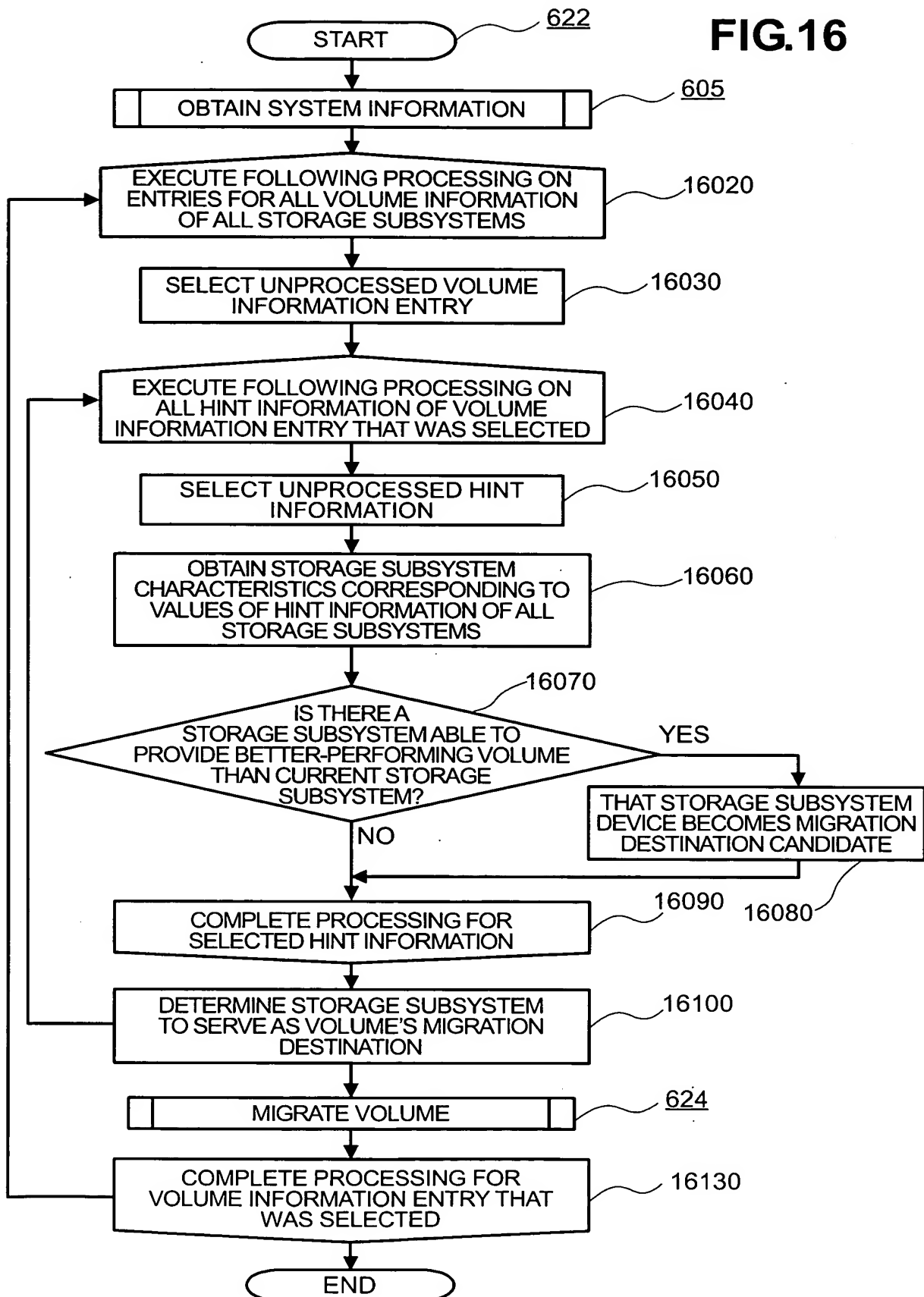


FIG.17

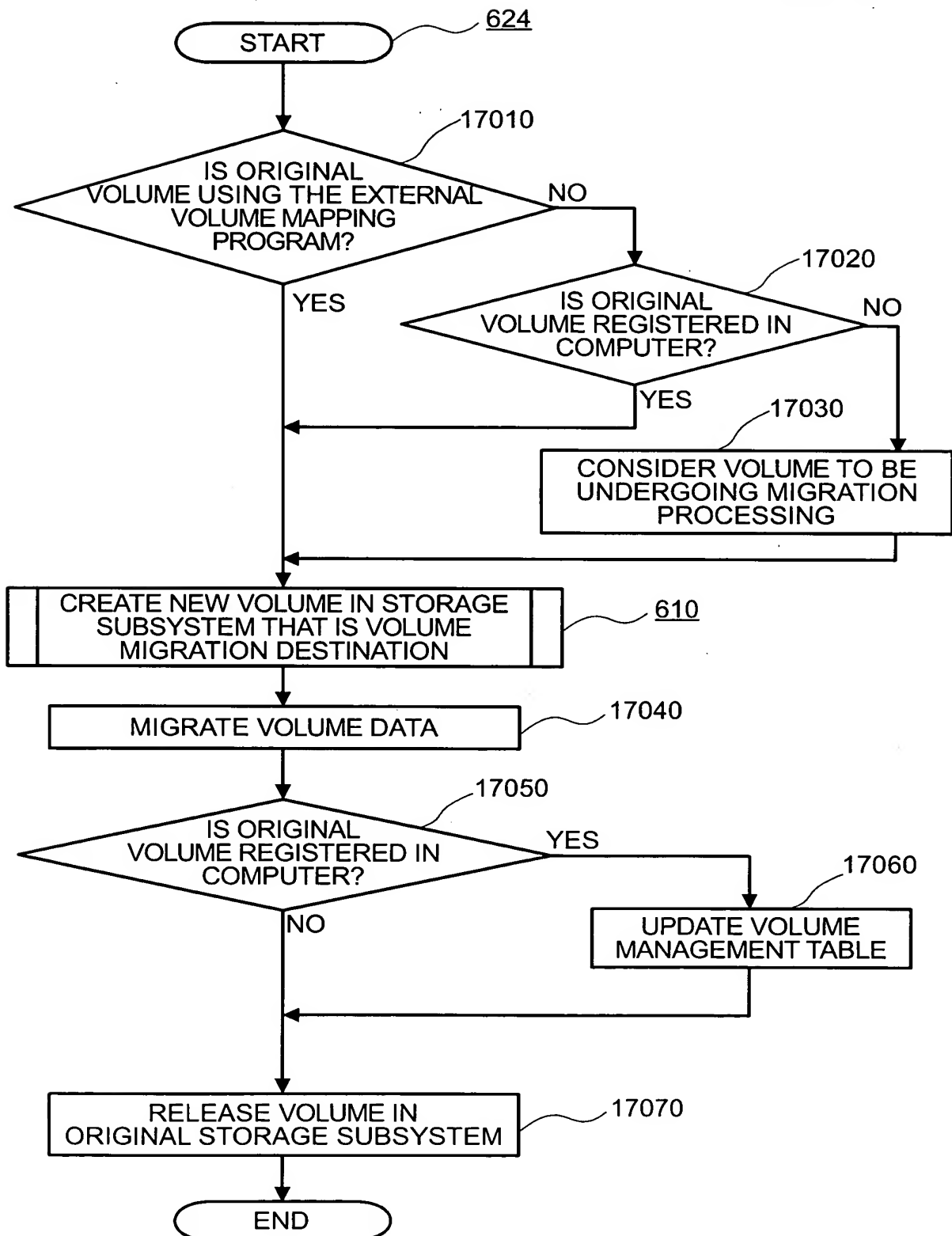


FIG.18

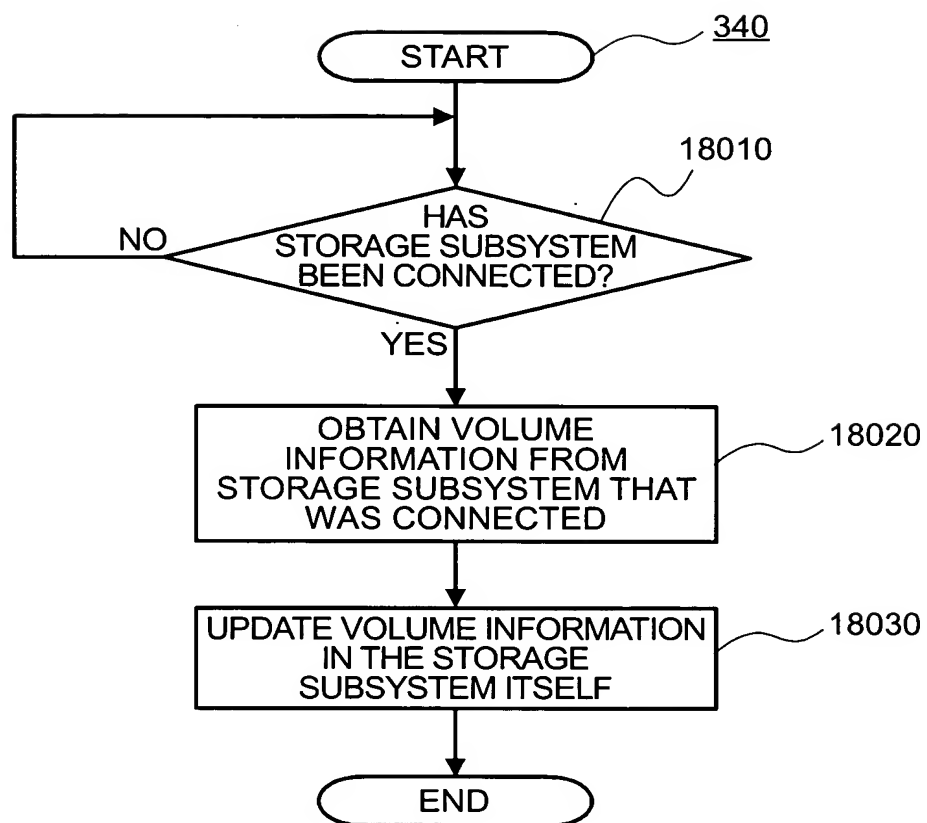


FIG.19

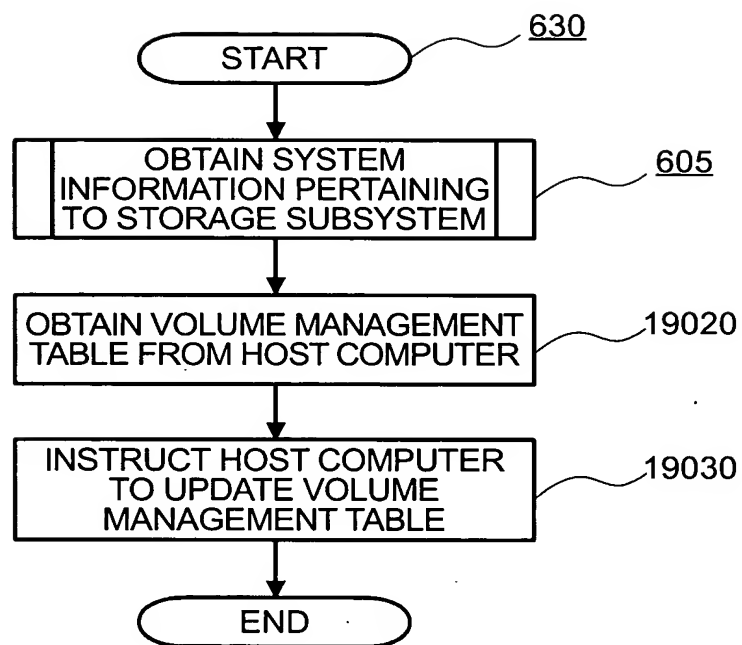


FIG.20

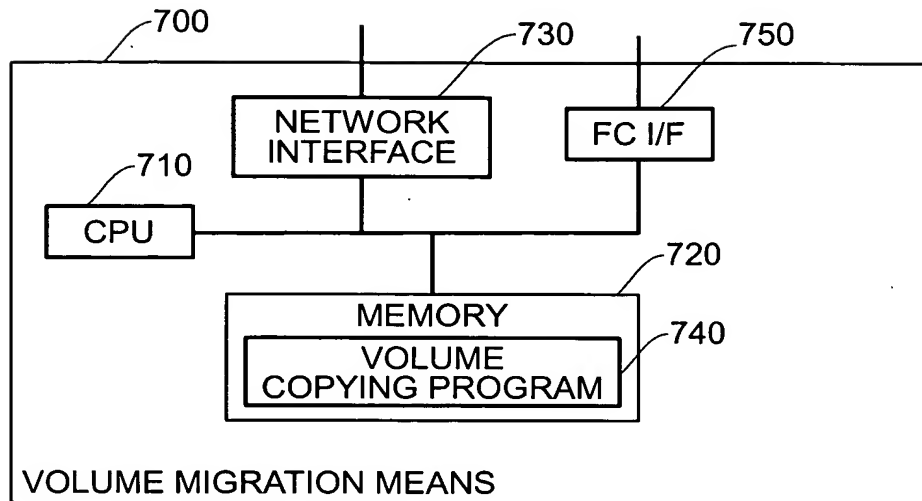


FIG.21

